

What is claimed is:

1. A method for delivering a longitudinally collapsible prosthesis to an anatomical site in a body channel, the method comprising:

introducing a catheter into the body channel, wherein the catheter contains a  
5 longitudinally collapsible prosthesis in a retracted state;

advancing the catheter to an anatomical site;

maintaining a distal portion of the longitudinally collapsible prosthesis in place relative to the anatomical site by attaching the distal portion of the prosthesis to the interior of the anatomical site;

10 disengaging the longitudinally collapsible prosthesis from said catheter, wherein the collapsible prosthesis expands from the retracted state to a non-retracted state; and  
withdrawing said catheter from the body channel.

2. The method according to claim 1, wherein the longitudinally collapsible prosthesis is a vascular graft.

15 3. The method according to claim 1, wherein the longitudinally collapsible prosthesis is a biological vascular graft.

4. The method according to claim 1, wherein the longitudinally collapsible prosthesis is a stentless cardiac valve.

20 5. The method according to claim 1, wherein the longitudinally collapsible prosthesis is a valved conduit.

6. The method according to claim 1, wherein the longitudinally collapsible prosthesis is a venous valve.

7. The method according to claim 1, wherein the step of attaching the distal portion of the prosthesis to the interior of the anatomical site further comprises a step of stapling said prosthesis into the tissue of the body channel.

8. The method according to claim 1, wherein the step of attaching the distal portion of the prosthesis to the interior of the anatomical site further comprises a step of adhering said prosthesis into the tissue of the body channel.

9. The method according to claim 1, wherein the step of attaching the distal portion of the prosthesis to the interior of the anatomical site further comprises a step of coupling said prosthesis into the tissue of the body channel.

10. The method according to claim 1, wherein said distal portion of the longitudinally collapsible prosthesis is maintained in place at a position relative to the anatomical site by an elongated delivery member located within a lumen of the catheter, said elongated delivery member having an engagement element at a distal end of the said elongated delivery member, where in the engaging element is adapted for engaging and digging ht distal portion of said longitudinally collapsible prosthesis. a therapeutic fluid is introduced into the lumen of the catheter shaft.

11. A method for delivering a stentless longitudinally collapsible bioprosthesis in a body channel,

the method comprising percutaneously introducing a catheter into the body channel, wherein the catheter contains said stentless longitudinally collapsible bioprosthesis at a retracted state; and disengaging said stentless bioprosthesis out of a distal opening of the catheter by pulling the distal end of the stentless bioprosthesis.

12. The method according to claim 11, wherein said pulling mechanism further comprises an engaging element coupling to a distal portion of the stentless longitudinally collapsible bioprosthesis from said engaging element.